

**IN-LINE LEAD HEADER FOR
AN IMPLANTABLE MEDICAL DEVICE**

ABSTRACT OF THE DISCLOSURE

Implantable medical devices (IMDs) comprising a monitor or implantable pulse generator (IPG) having an IPG header to which lead connector assemblies of electrical medical leads are coupled, particularly, an improved in-line IPG header providing enhanced durability, ease of manufacture, and ease of use. A stack of alternating, substantially tubular electrically insulating fluid seals and header connector elements is assembled in axial alignment to form a common, elongated axial stack bore sized in diameter and length to receive the lead connector assembly. Each adjacent electrical connector element and fluid seal are interlocked with one another during assembly of the stack to maintain the axial alignment and the length and diameter dimensions. Fluid seals are located at each end of the stack, and the stack can be inserted as a unit into a cavity of the IPG header.